: 5/44

DART AEROSPACE LTD	Work Order:	24410
Description: 3" Skidtube Light 'I' Beam Extrusion	Part Number:	D2600-5-108
Drawing: D2600 Rev. D1	Qty:	20024

		5.10.03 PA Wishows			
Step	Location	Procedure	Ву	Date	Qty
1	DC	Issue Traveller	*A	05,10,04	
2	PG	Issue P/O: 2008 783  a) Extrude as per Dwg D2600 b) Material: 6061-T6 (QQ-A-200/8) c) Minimum yield tensile strength = 35 ksi d) Minimum ultimate tensile strength = 40 ksi e) Minimum elongation = 8% f) Order at 108" long g) Caradon Indalex Tool # MS-18871 h) To be packed per DSK 066 i) Pull test to ASTM standard B221 required. j) Material certification is required	4	05.10.04 05-10-07	¥40
3	RG	Inspect for transit damage Ensure certification are attached	CZ	25/10/24	264
4	QC6	Inspect dimensions per Dwg D2600 Check Pull test per Dwg D2600 for compliance page attached. Check hardness with Webster tester		v5·12·15	
5	ST	Identify and Stock .	2	05-12-15	260
6	AC	Cost / part	u	03.12.12	260
7	DÇ	Close W/O inspect Level 21	0	05/12/16	260

Rev	Date	Change	Revised By	Approved
Α	98.05.08	New Issue		
В	98.10.19	Dwg Rev.	KS	
С	99.06.22	Re-format	DM	
D	00.02.01	Removed second pull test	EC	
E	01.03.29	Changed part# to -108	EC	- 0
F	02.09.10	Added DSK 066	KJ RF	J.

RELEASED OZ/09/17 RF

301488

6. 198 33

P10

## Dart Aerospace Ltd

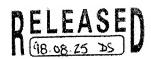
W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES						
DATE	STEP	STEP PROCEDURE CHANGE		Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector	
				(£)					

NCR:	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	InitialAction DescriptionSign &Design MgrDesign MgrDate			Section C	Design Mgr	QC Inspector
05.12.15	y	U peices found with transport damage or fork lift chamage Also Tensile strength is supposed to be 410-Actualis 39660	OTUP	cl parts scrap damage over Tol. place in quarantine. Tensile strength acceptable as pur e-mail from Shapherd.	05-12-15	05-12-15	BJC-12	05-12-15
		:						

Part No:	PAR #:	Fault Category:	NCR:	Yes (No) DQA:	Date: 05/12	116
NOTE: Date & initial all entries				QA: N/C Closed:	Date:	<del></del>
H:\forms\Quality Assurance\approved forms	s\NCRWO revC					



	DESIG	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA				
	CHECH	ED APPROVED	DRAWING NO.	REV. D			
	<i>X</i>	E Y	D2600 SHEET	1 OF 5			
	DATE	The state of the s	TITLE	SCALE			
*	98.0	8.20	EXTRUSION	1:1			
	Α	97.01.21	NEW ISSUE	***************************************			
	В	97.09.09	CHANGE MATERIAL SPEC.				
	С	98.04.16	ADD D2600-3, UPDATE D2600-1 NADD DIE NO.	WIDTH,			
	D	98.08.20	INCREASE MIN. UTS TO 40 KSI				
	7.	01. 04.17	ADD PART NUMBERS & DIE NUMBERS	1-11			



### GENERAL NOTES

1. MATERIAL: 6061-T6 (QQ-A-200/8)

MINIMUM YIELD TENSILE STRENGTH = 35 ksi MINIMUM ULTIMATE TENSILE STRENGTH = 40 ksi MINIMUM ELONGATION = 8 %

A SAMPLE FROM EACH BATCH WILL BE PULL TESTED TO ASTM STANDARD B221 BY AN APPROVED TESTING FACILITY TO ENSURE THAT THE BATCH MEETS THE ABOVE MINIMUM MECHANICAL PROPERTIES.

- 2. BREAK ALL SHARP CORNERS 0.010 MAX.
- 3. NO TOOLING MARKS.
- 4. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 5. ALL DIMENSIONS ARE IN INCHES.

SHOP COPY

RETURN TO

ENGINEERING

TROLLED COPY

TO AMENDMENT

WITHOUT NOTICE

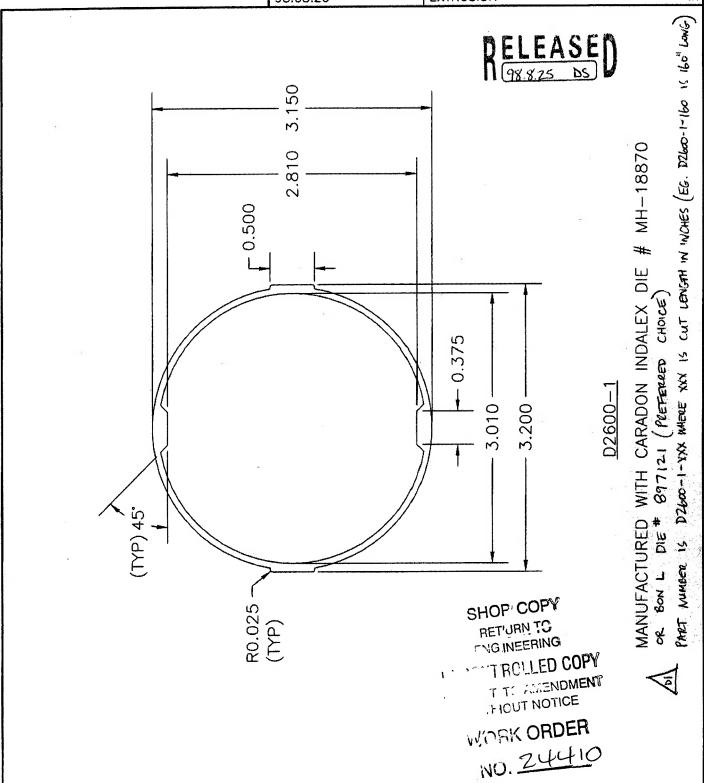
WORK ORDER

NO. 24410





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DESIGN	DRAWN SY		AEROSPACE ESBURY, ONTARIO, CAN			
CHECKED	APPROYED	DRAWING NO.			REV.	0
HE	(1)	D2600		SHEET	2 OF	5
DATE	-//	TITLE			SCA	LE
98.08.20		EXTRUSION				1:1



98,08.20

DRAWING NO. EXTRUSION

SCALE

SHEET 3 OF 5

WORK ORDER

NO. 24415

(TYP) 45° R1.505 R1.420 130° 2.810 3.150 プ 娘0.025 倒YP) **(COP**) TURN TO TOUT NOTICE F LED COPY 0.375

D2600-3

MANUFACTURED WITH CARADON INDALEX DIE # MH-18859

DIE # 897122 (PREFERRED CHOICE)

15 DZ600-3-XXX WHERE XXX IS CUT LENGTH IN INCHES (EG. DZ600-3-120 15 120"LONG)

Copyright 1997 by DART AEROSPACE LTD

98.08.20

D2600-5

**←** 0.375

MANUFACTURED WITH CARADON INDALEX DIE # MS-18871 PART NUMBER IS DZ600-5-XXX WHERE XXX IS CUT LENGTH IN INCHES

(EG. D2600-5-108 15 108" LONE)

R1.505 -45° (TYP) R0.150 (TYP) 2.810 2.670 0.070 R0.025 (TYP)

WORK ORDER TROLLED COPY
T TO AMENDMENT
T TO AMENDMENT ETURN TO

NO. 2

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SHEET 5 OF 5 SCALE

## EASE

	R1.50	5 -	4	5° (TYP)	
	,		R0.250	(TYP)	
2.810	2.400	-	0.080		
				∕- R0.025	(TYP)
SHOP, CO		-	0.375		

WORK ORDER NO. 24410 T TO AVENDMENT Y'S INEERING IT ROLLED COPY

D2600-7

MANUFACTURED WITH CARADON INDALEX DIE # MS-18872 PART NUMBER IS D2600-7-XXX WHERE XXX IS CUT LENGTH IN INCHES (EG. D2600-7-125 IS 125" LONG)

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### Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Oct 03, 2005 11:23 am

Work Order No : 0024410

Project Name : D2600-5-108
Project For : WK544

Work Order Type : Main Main WO Number :

House Part Number : D2600-5-108

Description : Extrusion \[ I Beam' thin

Manufactured : Yes

Amount Req'd: 200
Amount Done: 0
Start Date: 10-03-05

Est Finish Date : 11-05-05

Act Finish Date : Drawings Regd : No

Ok for Approval : Approval Rec'd : Department Code:

Burden Flags : NNNNNNN

WO Status : Open

Invoice State : Not Invoiced

Invoice Date :

Invoice Number :

Invoice Amount: 0.00

Order Entry No :

OE Value : 0.00

Est Mark Up : 0.000% Actual Mark Up : 0.000%

\$0 Posted to Finished Goods

		Estimated	Actual	Var. %	Posted	To Post
National Cont	===	0.00	0.00	0.00	0.00	0.00
Material Cost	:				0.00	0.00
Engineering Hours	:	0.00	0.00	0.00	0.00	0.00
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
		========	========	======		
Burden	:	0.00	0.00	0.00		
		========	=========	======		
Total Cost	:	0.00	0.00	0.00		
Mark up	:	0.000	0.000			•
Selling Cost	:	0.00	0.00			

		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00



Points/Claire QC H9R 5W2 325 ruę Avto

(514) 697-5120 (514) 694-8310 Fac-simile Téléphone

# Rapport des propriétés mécaniques Machanical Properties Test Report

DART AEROSPACE LTD Client / Customer:

1270 ABERDEEN STREET Adresse / Address :

HAWKESBURY ONT,

K6A 1K7

6100882 # commande indalex / indalex order # : 2008783 # bon de commande / Purohase order #:

# de matrice / Die # :MS 18871 Description : D-2600-5 Light Duty Web

Allage & trempage / Alloy & temper :

36354 # de coulée / Cast #: 132-1 # de contrôle / Control #:

Composition chimique typique / Typical ohemical composition:

Si:0.72-0,76/ Fe:0.20-0.29/ Cu;0.24-0,28/ Mn:0,06-0,10/ Mg;0,84-0.88/ Cr:0.05-0,09/ Zn:0.08max / Ti:0.04max

Dureté Rockwell E / Rockwell E Hardness: 91 HRE

	2.5	E Mary	
Résultat actuel Actual resulta	37273 L	09968	06
Min.requis Min.required	35 000	38 000 c/0°	æ
	Contrainte élastique	Tension uttime	We elongation dans 2" % elongation in 2"

Nous certitione que le matériel foum! rencontre les exigences chimiques telles qu'annoncées par l'Association de l'Aluminium ainsi que les exigences de nos procédures de contrôle de qualité.

We hereby certify that the material supplied meets the chemical properties as published by the Aluminum Association, and requirements of our quality control procedures.

Sincerement votre, Yours truly,

date: 2005-10-18

Technicien de la qualité Quality teohniclan Bruno Morency

Indalex Limited

### Jason Murdoch

From: David Shepherd [davids@dartaero.com]

Sent: November 15, 2005 6:22 PM

To: Jason Murdoch

Cc: Linda Lacelle; Bill Beckett

Subject: D2600-5-108 B24410

Jason,

You sent me a fax showing me that the UTS for the subject material is 39,660 psi instead of 40,000 psi per the drawing.

The critical extrusion on the D2600 drawing is the D2600-1 extrusion.

Therefore, I think this material is acceptable because it is so close to the 40,000 psi.

However, I think it should be pointed out to the vendor that we didn't get what we asked for.

David